



EST3

Paging &

Fire Phone

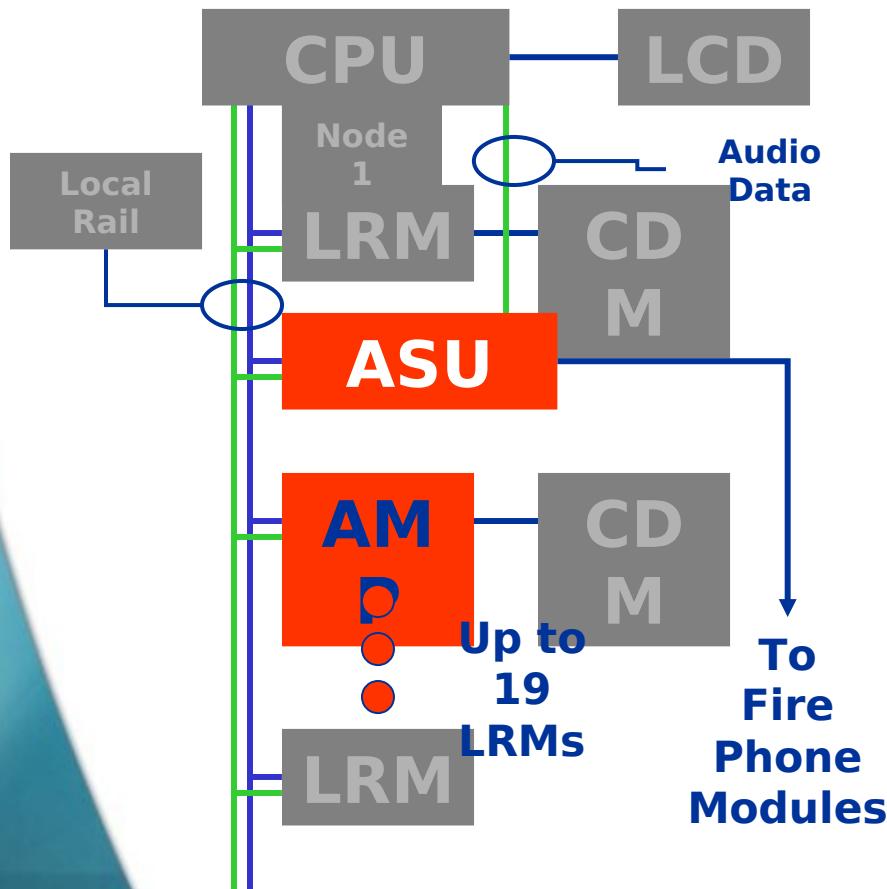
Hardware

EST3 with Audio

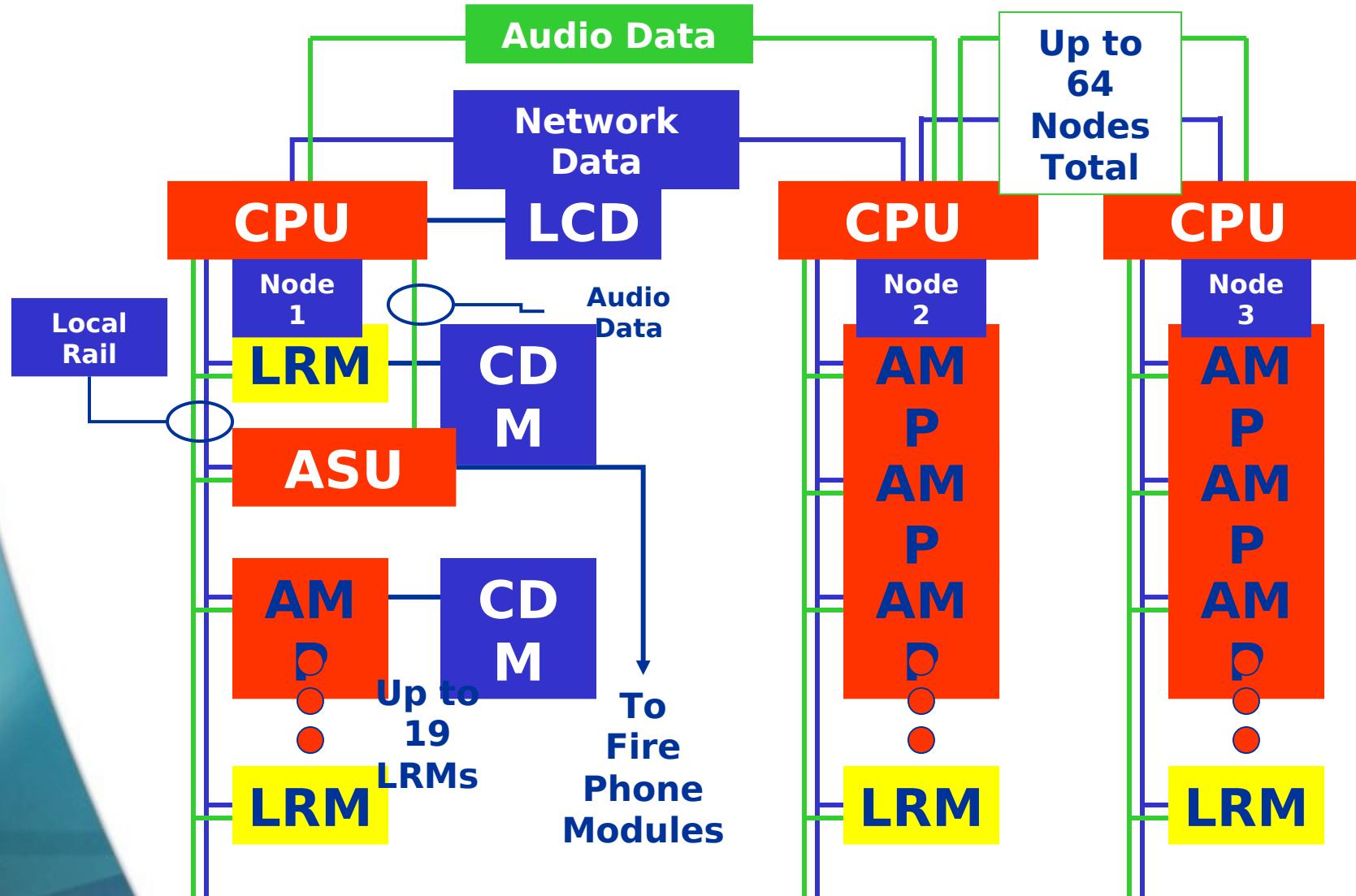
- **Integral to Panel**
- **Seamless Addition**
- **Digital vs Analog**
- **8 Channels Over a Single Pair**
- **Zoned Amplifiers**
- **Field Programmable Messages**



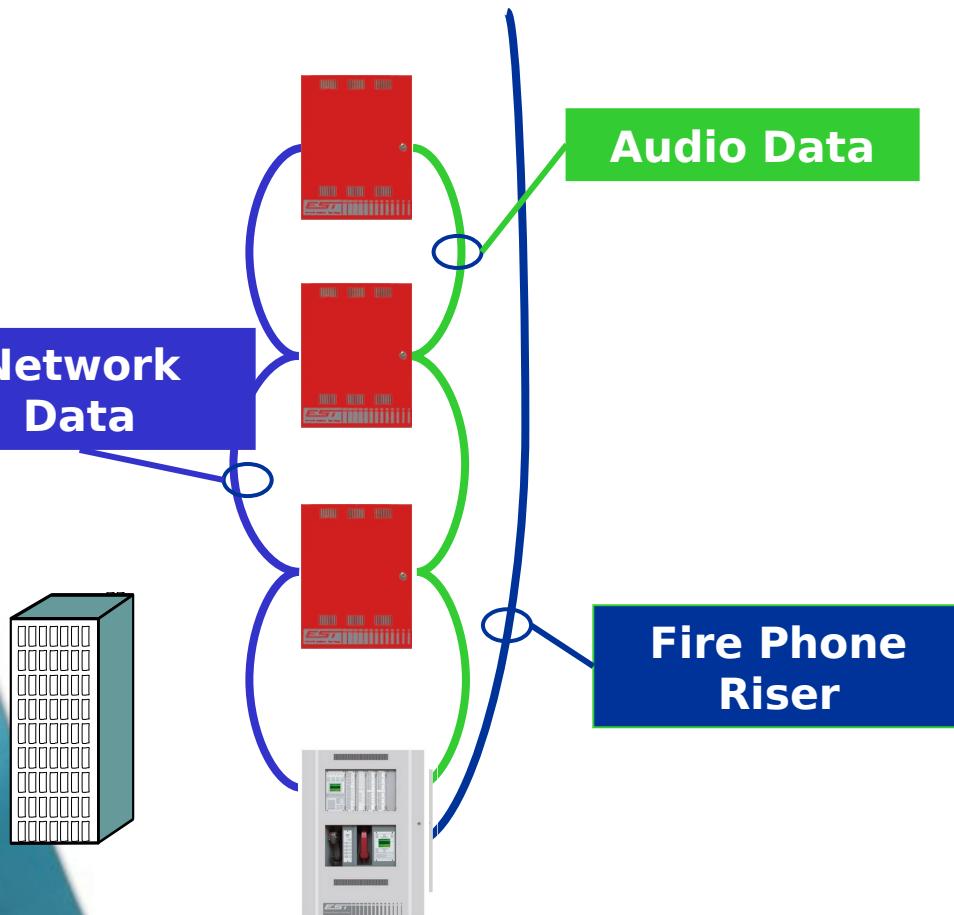
EST3 with Audio



EST3 Network /w Single ASU

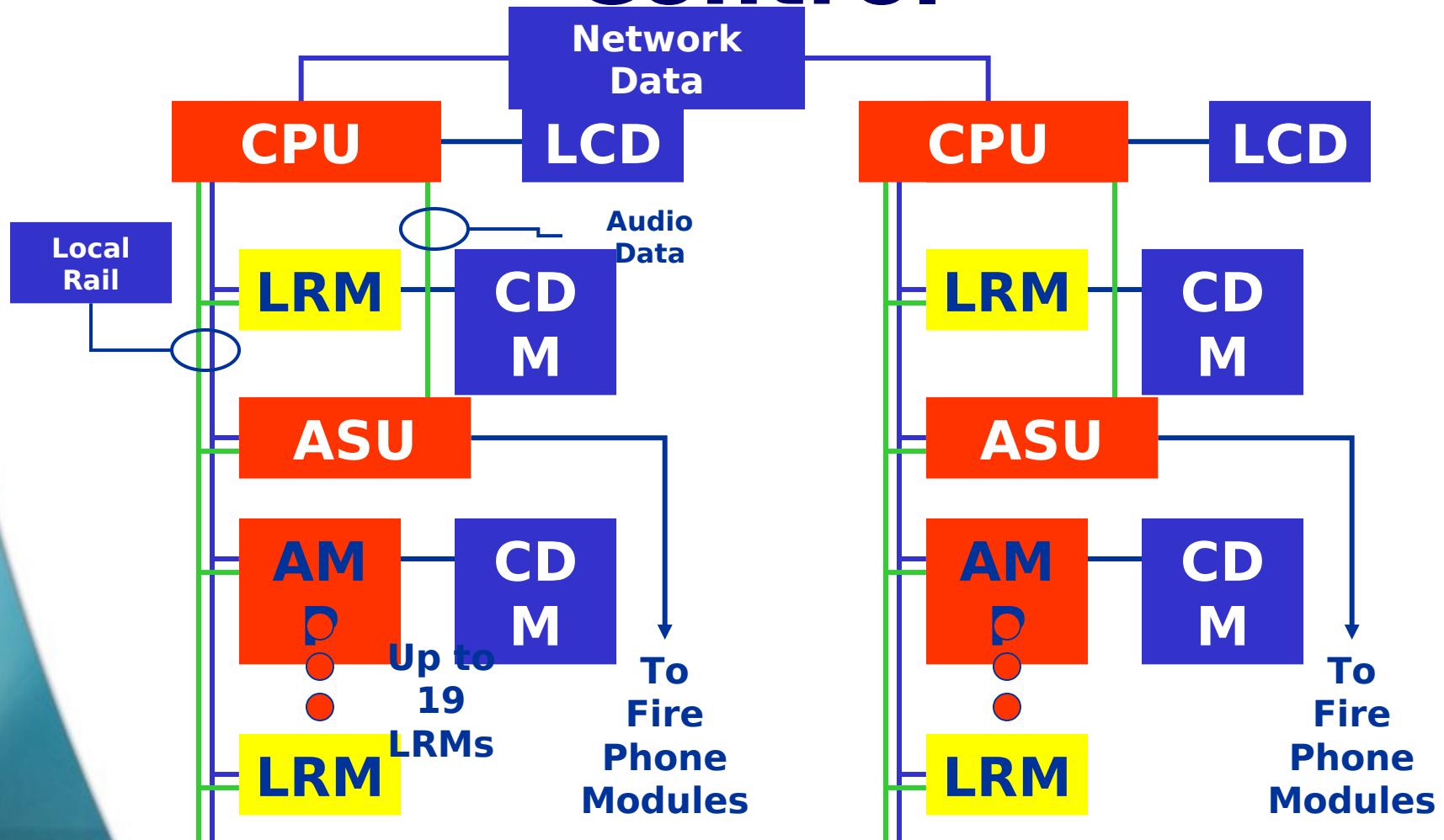


Single Building Audio

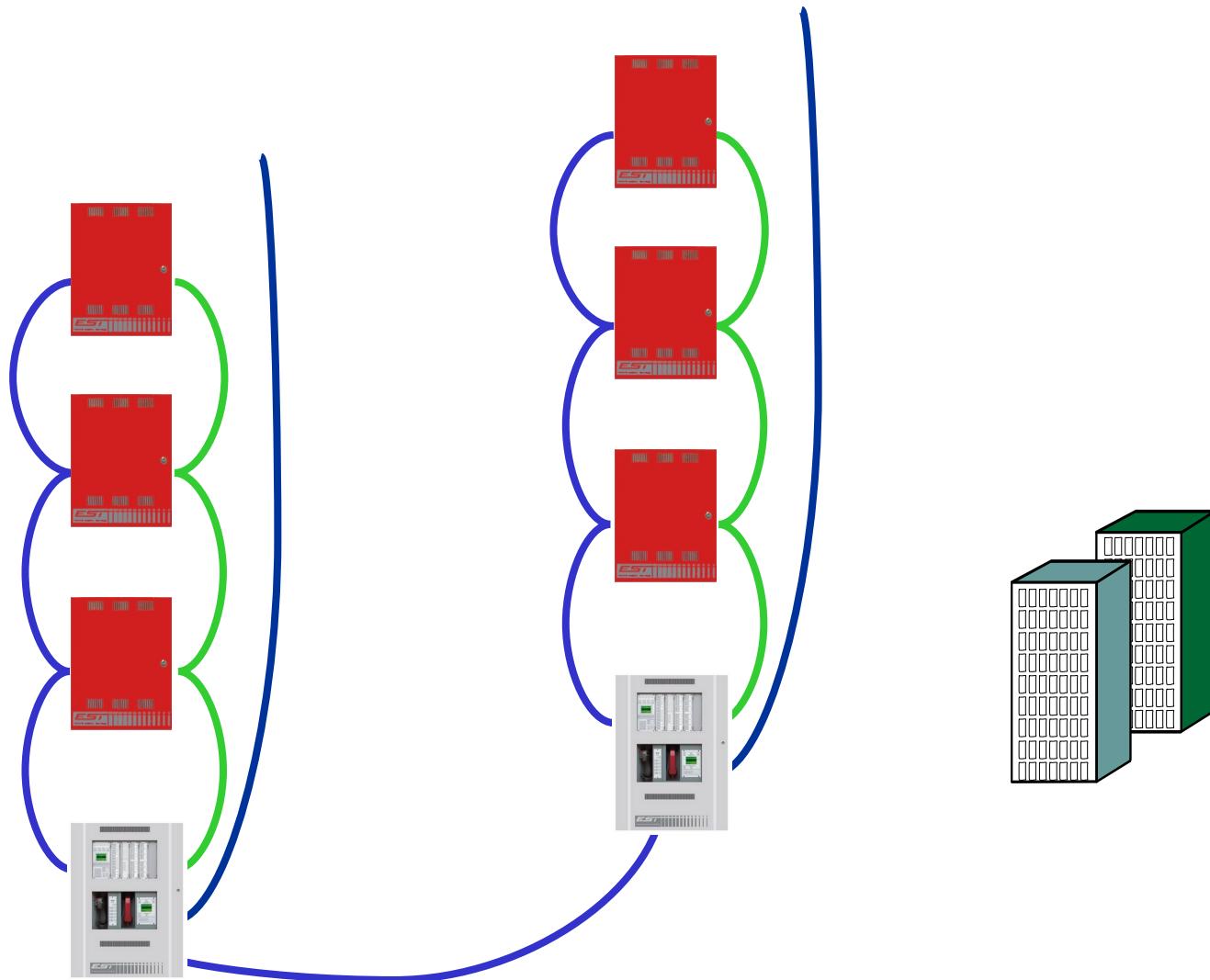


- **High speed audio data is RS485 Class 'B' or 'A'**
- **Can use Fiber**
- **2 wire pair carries 8 audio channels**
- **Analog phone riser to SIG modules, Class 'B' or 'A'**

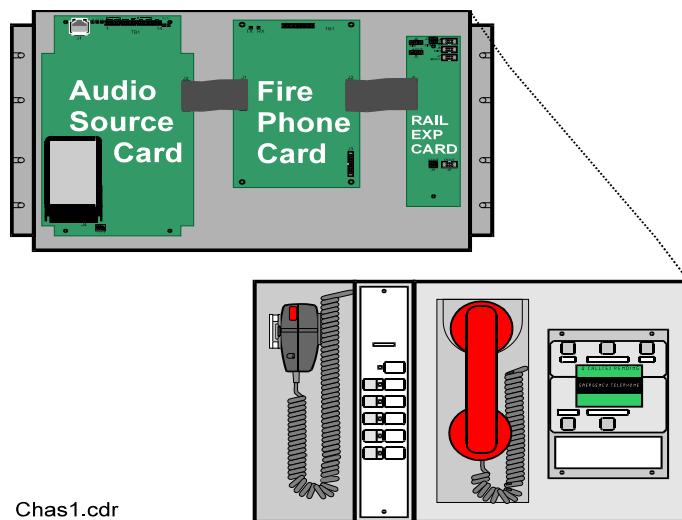
EST3 /w Multiple Audio Control



Multiple Building Audio

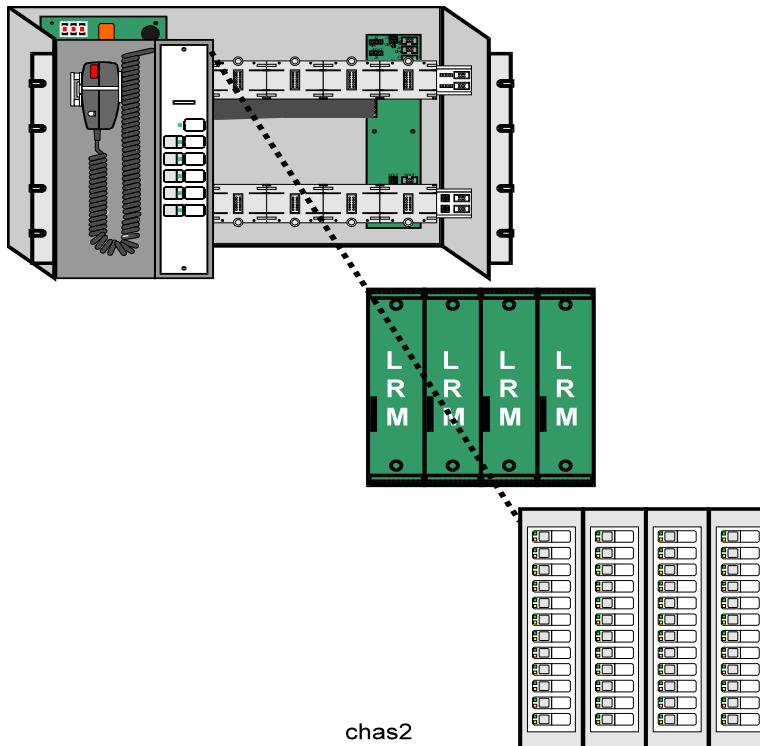


Audio Source Unit /w Phone



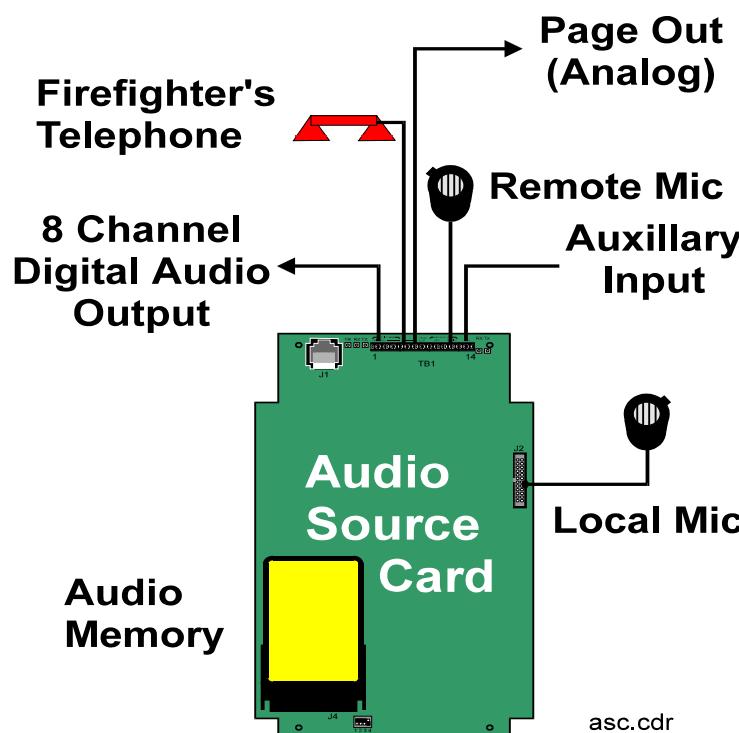
- **3-ASUFT supports both page control & fire phone**
- **Control modules mount to back of a chassis**
- **User interface mounts on top**

Audio Source Unit w/o Phone



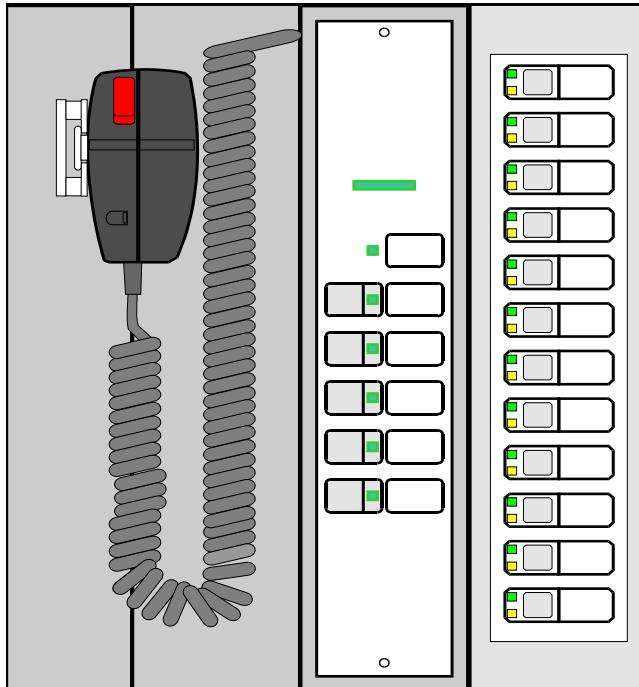
- **3-ASU support
paging only
systems**
- **Rail space for up
to four LRMs**
- **LRMs could be
amplifiers**
- **Control display
modules mount
to LRMs**

Audio Sources



- **Analog sources**
 - local microphone
 - fire phone
 - remote mic
 - auxiliary input
- **Audio memory**
- **8 channel digital**
- **Page out**

Paging Control



page2

- **Simple to use**
- **Minimum operations**
- **Less chance of error**
- **Fast response**
- **Auto pre-announce**
- **Page de-activation timer**

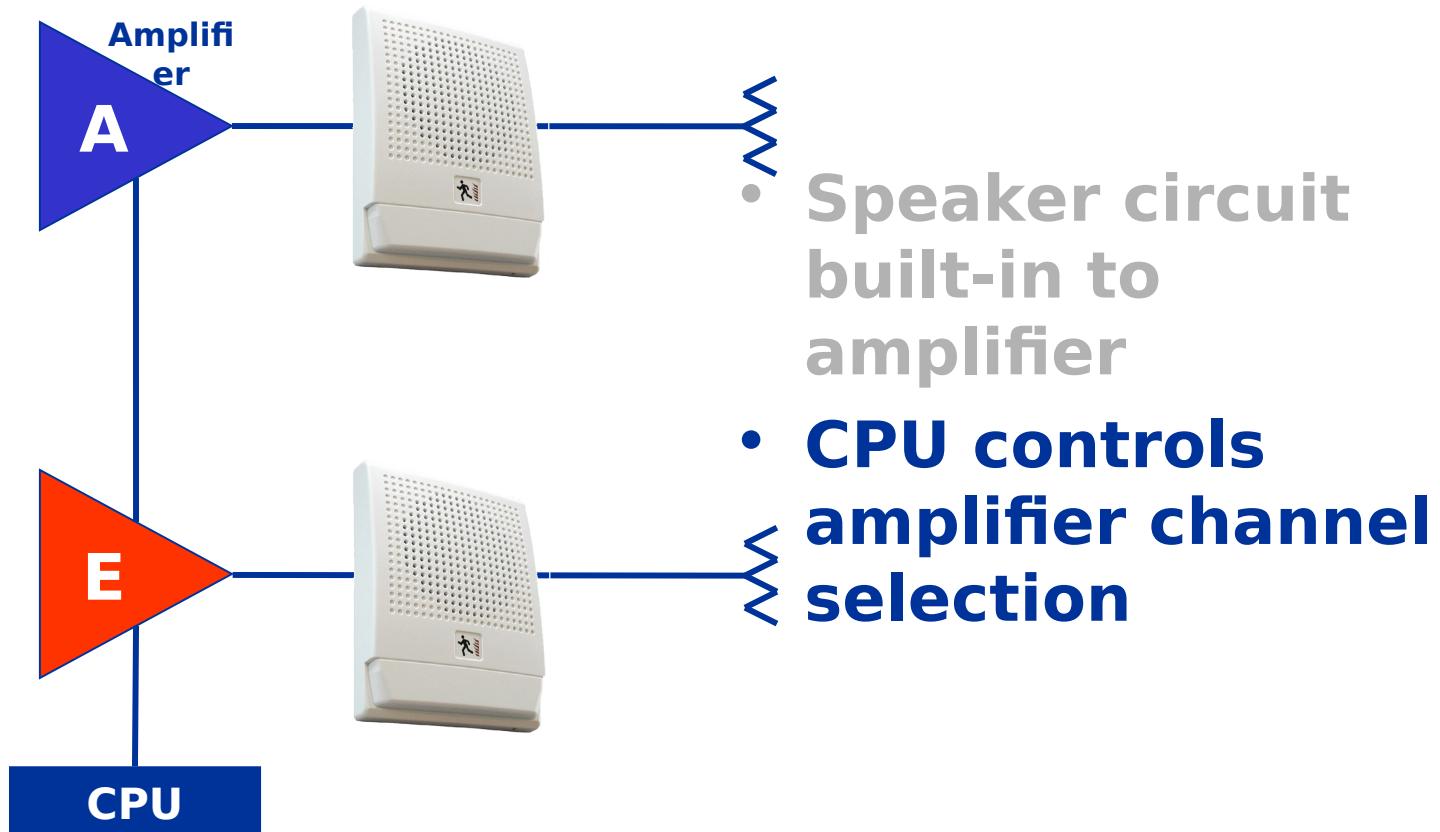
Zoned Audio Amplifiers



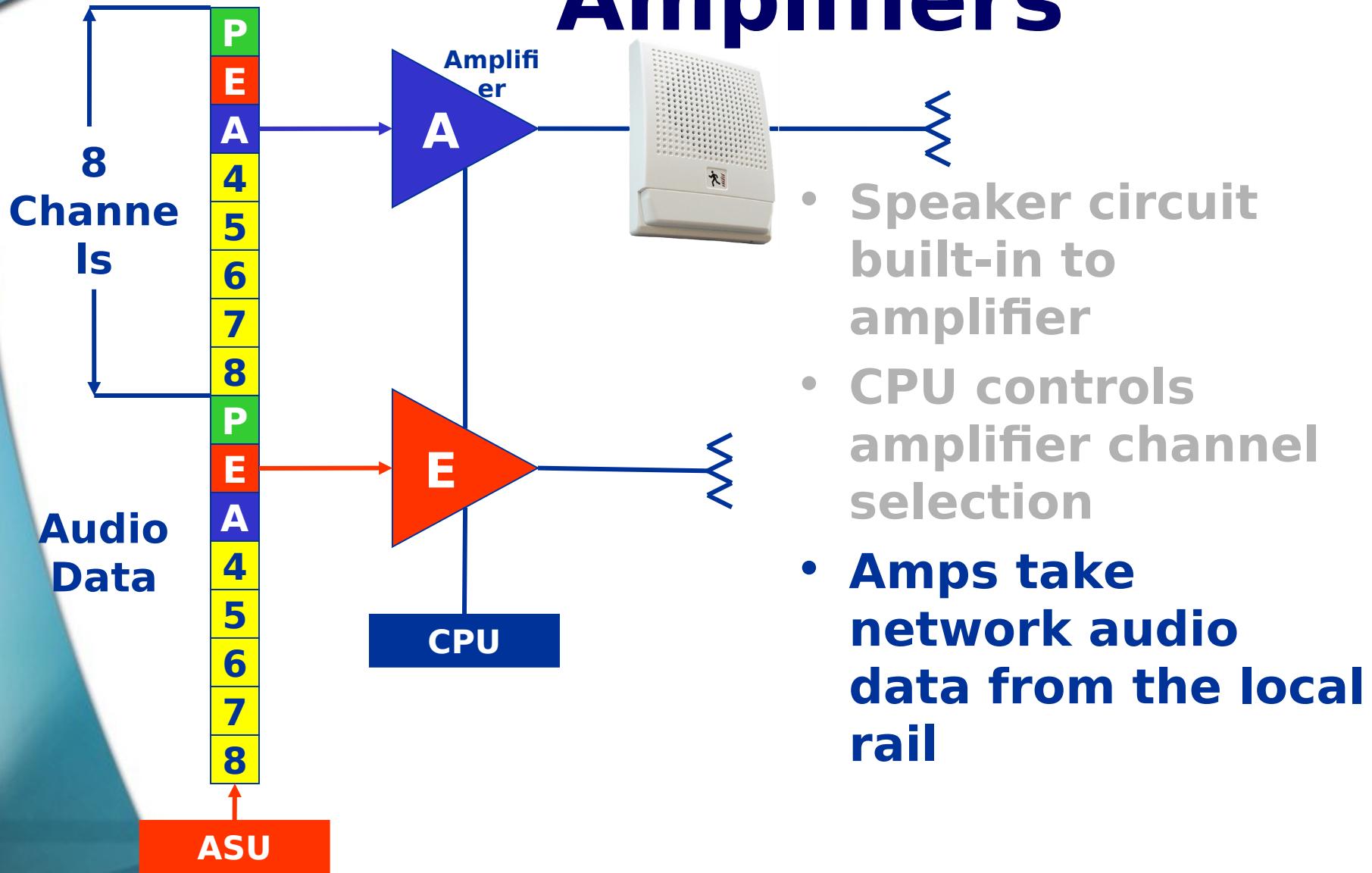
- **Speaker circuit built-in to amplifier**



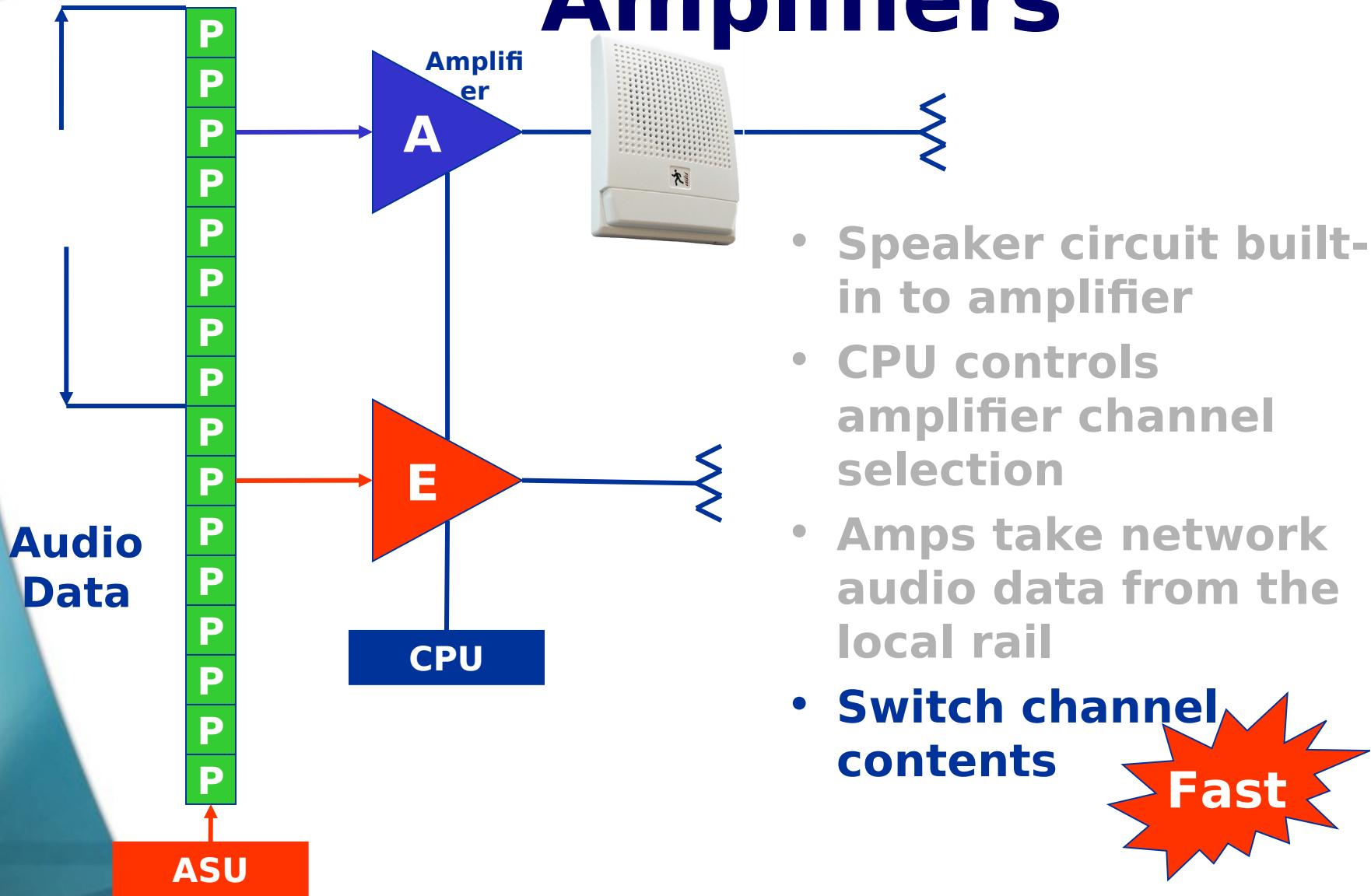
Zoned Audio Amplifiers



Zoned Audio Amplifiers



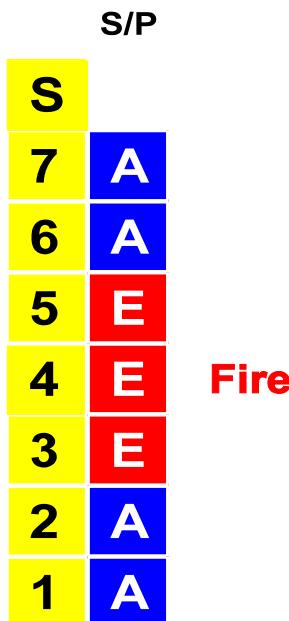
Zoned Audio Amplifiers



Evacuation Signaling

Using 2 Channels

Central Amplifiers vs Zoned
close on installed cost



- 4th is fire floor
- Evacuation signaling to fire floor, and floor above and below
- Alert signaling to all other level
- No signaling to stairwells

Page to Evac

Using 2 Channels

	S/P	P/E
S		
7	A	A
6	A	A
5	E	P
4	E	P
3	E	P
2	A	A
1	A	A

Fire

- Pressing Page to Evac selects the **Evac channel** for paging
- Pressing the mic key delivers pre-announce
- User pages to evacuation zones

Page to Alert

Using 2 Channels

	S/P	P/E	P/A
S			
7	A	A	P
6	A	A	P
5	E	P	E
4	E	P	E
3	E	P	E
2	A	A	P
1	A	A	P

Fire

- **Pressing Page to Alert selects the Alert channel for paging**
- **Pressing the mic key delivers pre-announce**
- **User pages to alert zones**

All Call Minus

Using 3 Channels
Simplex & Notifier out of
the picture due to cost

	S/P	P/E	P/A	ACM	
S					P
7	A	A	P	A	
6	A	A	P	A	
5	E	P	E	E	
4	E	P	E	E	Fire
3	E	P	E	E	
2	A	A	P	A	
1	A	A	P	A	

- Pressing All Call Minus selects any amplifier not programmed to signaling for page
- Pressing the mic key delivers pre-announce
- User pages to stairwells

All Call



Using all Channels

	S/P	P/E	P/A	ACM	A/C
S				P	P
7	A	A	P	A	P
6	A	A	P	A	P
5	E	P	E	E	P
4	E	P	E	E	P
3	E	P	E	E	P
2	A	A	P	A	P
1	A	A	P	A	P

Fire

- **Pressing All Call selects all channels for paging**
- **Pressing the mic key delivers pre-announce**
- **User pages to all amplifier zones**

Zone Page to 4th

Using 3 Channels
Simplex & Notifier out of
the picture due to cost

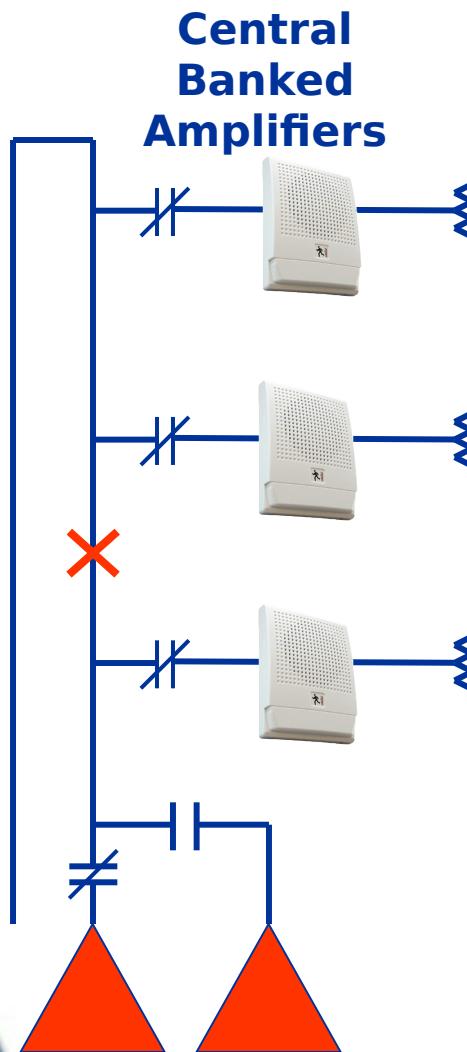
	S/P	P/E	P/A	ACM	A/C	Z/P
S				P	P	
7	A	A	P	A	P	A
6	A	A	P	A	P	A
5	E	P	E	E	P	E
4	E	P	E	E	P	P
3	E	P	E	E	P	E
2	A	A	P	A	P	A
1	A	A	P	A	P	A

- Pressing a zone page switch notifies amplifier to 'ready for page'
- Pressing the mic key switches the amplifier to the page channel and delivers pre-announce tone

Zoned Audio Amplifiers

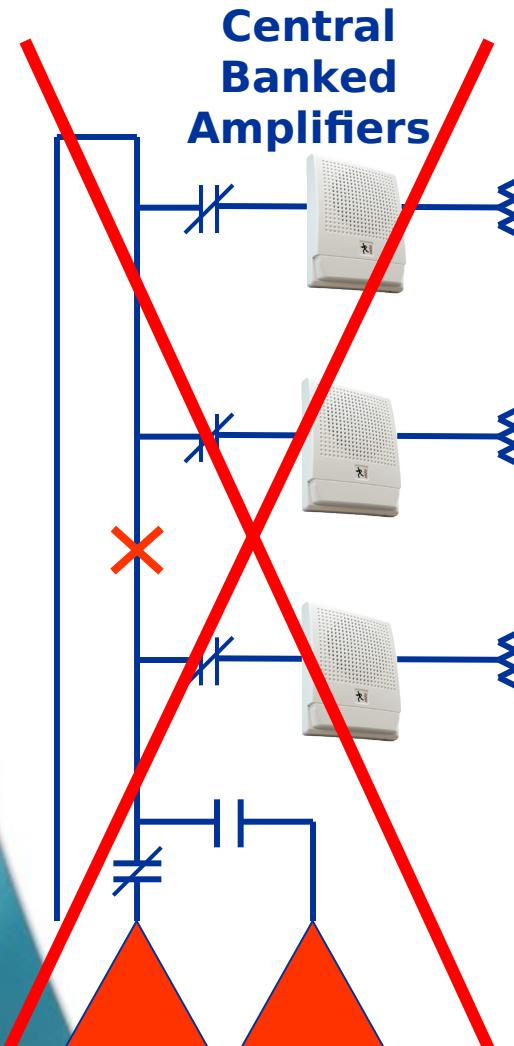
- **Advantages of Zoned Amplifiers over Central Amplifier Systems**
 - Reliability
 - Performance
 - Installed Cost

Reliability



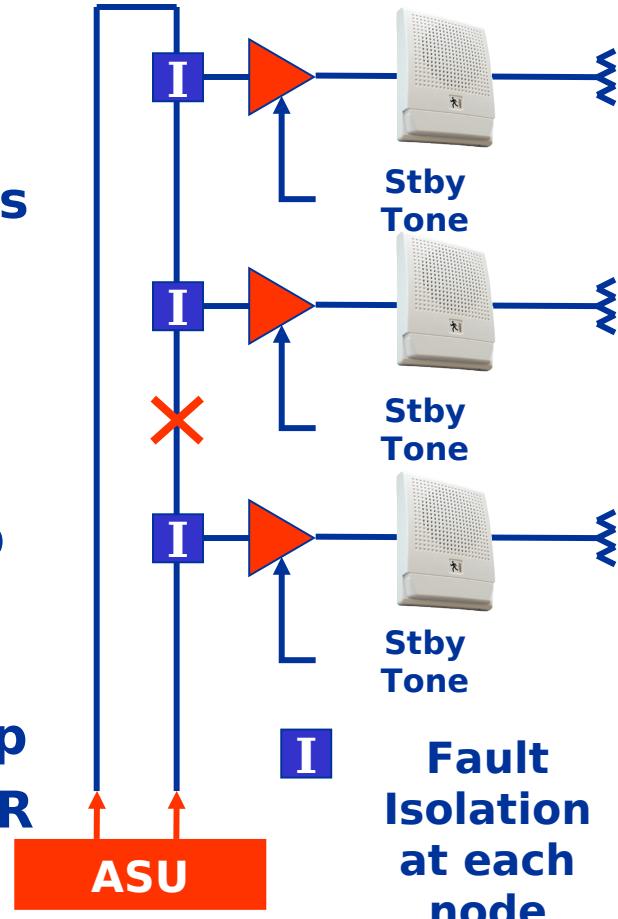
- **Single Point of failure**
- **Lose ALL circuits**
- **NOT power limited**
 - Needs separate conduit to meet code
- **Picks up noise**

Reliability

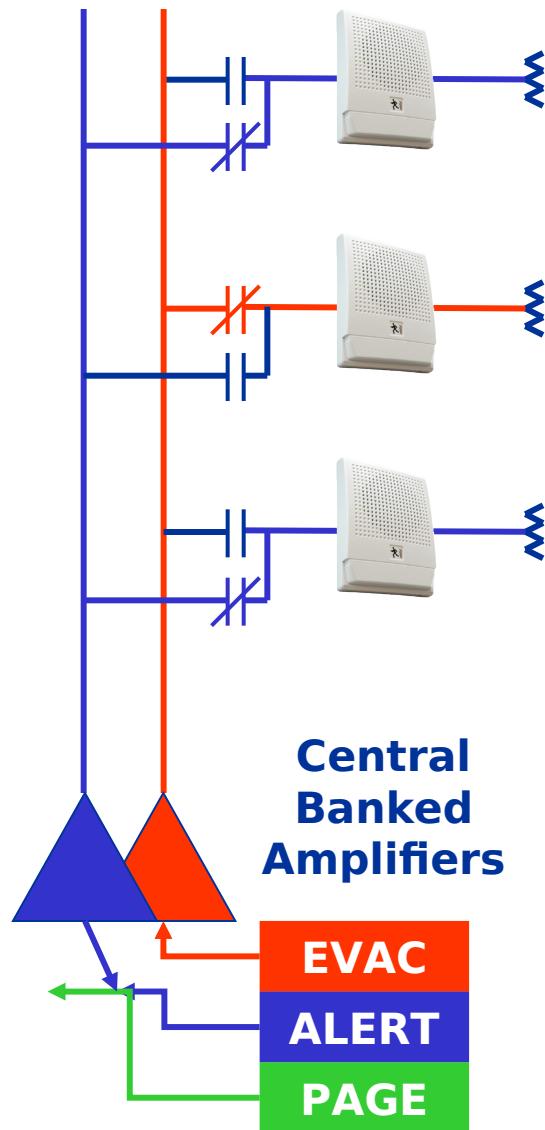


EST3 Zoned Amplifiers

- **Survives Single Riser Short**
- **loose NO circuits**
- **standby tone if multiple faults**
- **allows standby amplifier / node**
- **POWER LIMITED**
 - run in same conduit
- **NO noise pick up**
- **Can run as FIBER**

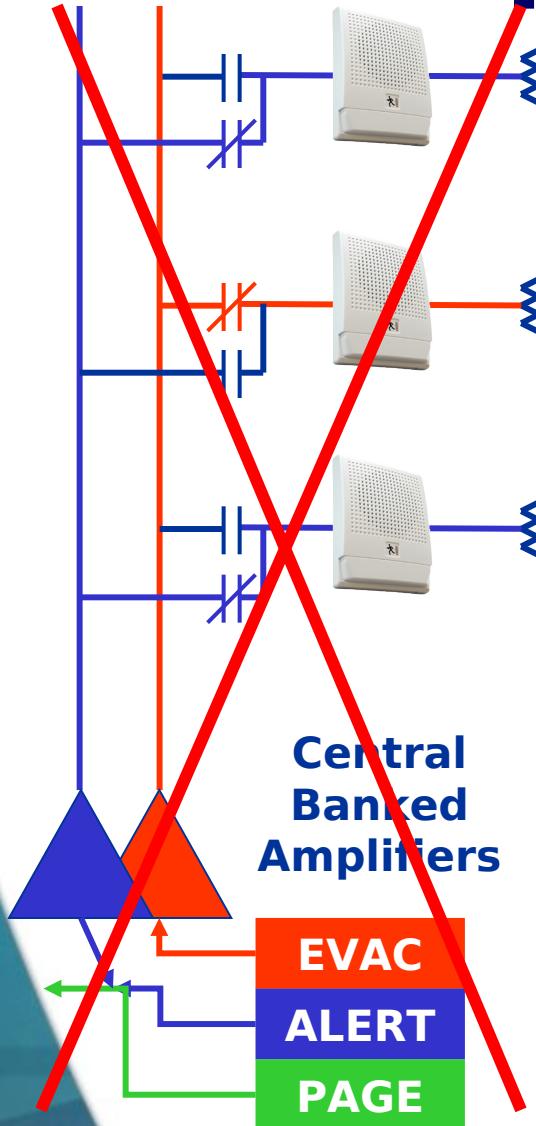


Performance

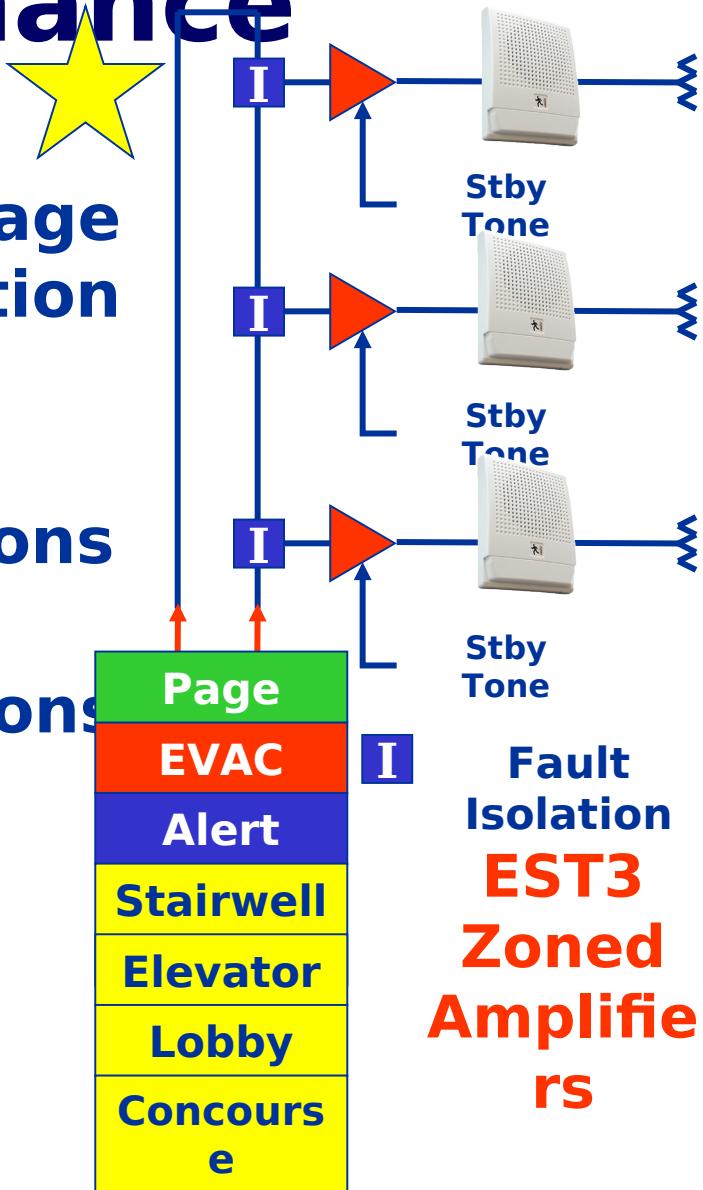


- **Interrupted messaging**
- **Turn off ALERT to page**
 - to an alert floor
 - to a stairwell
 - to the lobby
 - elevator
 - concourse

Zone Amplifier Performance

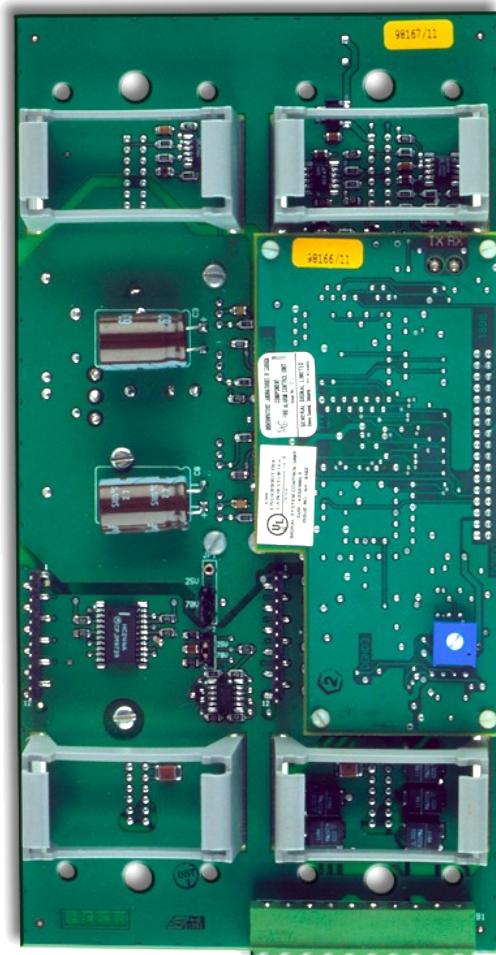


- No message interruption
- Allows specific instructions
- Safer evacuations

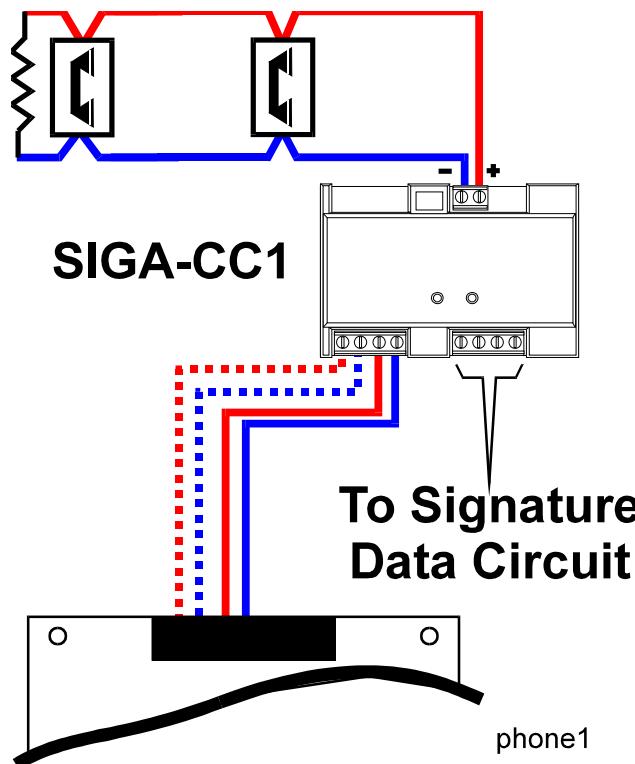


Zoned Audio Amplifiers

- **Available in 20, 40, & 90w**
- **Mount to rail, 20 & 40w take 1 space; 90w, 2**
- **C/W NAC, Class 'A' or 'B'**
 - **One 3.5A circuit per amplifier on 20 or 40w only**
 - **No additional space required**
 - **Supports ADA compliance**



Emergency Telephone



- **Riser from fire phone card to SIG-CC1 modules**
- **CC1 controlled by data circuit**
- **Class 'A' or 'B'**
- **Ring tone**

ASU /w Fire Phone



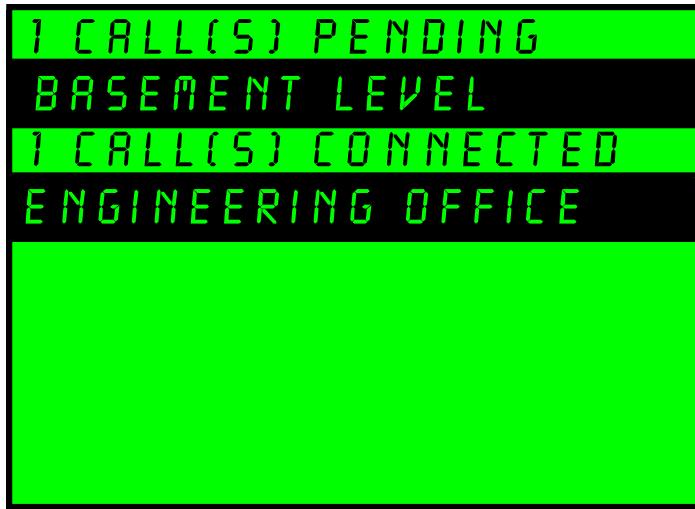
- **ASUFT**
- **Complete chassis**

Fire Phone Control



- **8 x 20 Liquid Crystal Display**
- **Language display of calls**
- **20 character location message**

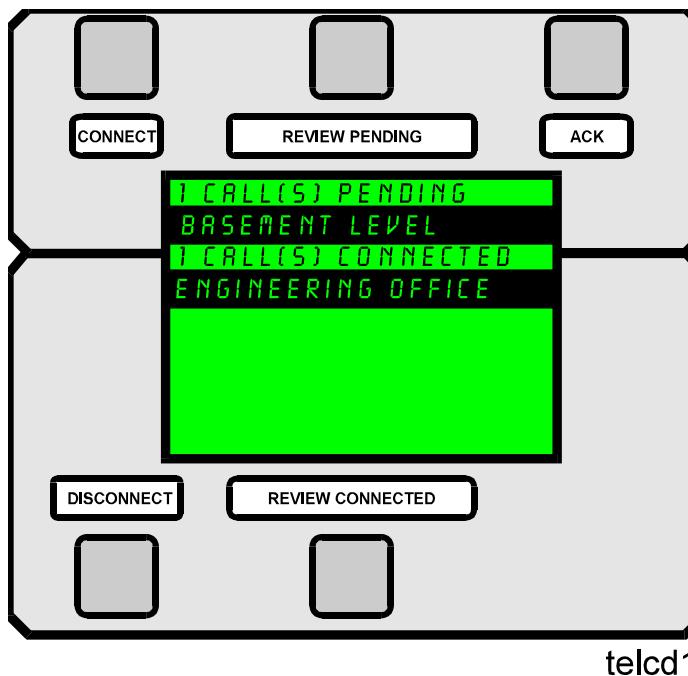
Fire Phone LCD



telcd2

- **Calls pending**
- **Pending list**
- **Calls connected**
- **Five lines individually list connected calls**

Fire Phone Selection Controls



- **Connect**
- **Review Pending**
- **Ack**
- **Disconnect**
- **Review Connected**



EST3 Paging & Fire Phone Hardware

Thank You!

